

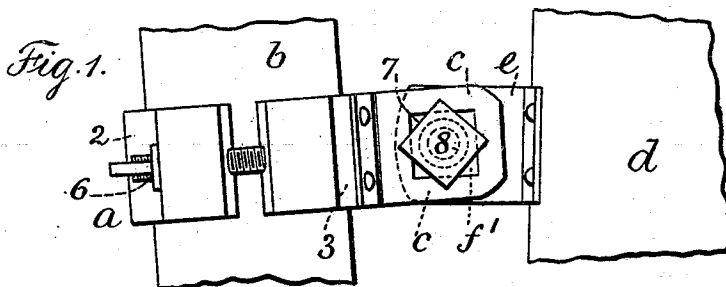
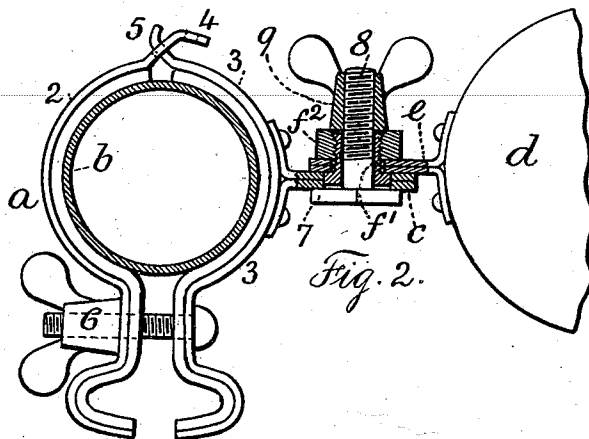
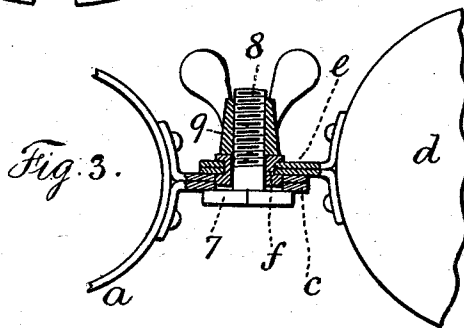
No. 650,211.

Patented May 22, 1900.

C. E. WIRTH.
LAMP BRACKET.

(Application filed Nov. 21, 1899.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES E. WIRTH, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE
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LAMP-BRACKET.

SPECIFICATION forming part of Letters Patent No. 650,211, dated May 22, 1900.

Application filed November 21, 1899. Serial No. 737,753. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. WIRTH, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Lamp-Brackets, of which the following is a specification.

Lamps burning oil and acetylene gas upon bicycles and other vehicles have heretofore been removably connected by a clamp and bracket to a part of such vehicle or a fixed support. Where the lamp and bracket were removably connected, a notched plate and radial serrations have usually been employed; but this notched plate was very liable to break and so cause the lamp and bracket to be temporarily useless; and the object of my invention is to overcome these difficulties.

In carrying out my invention I employ an eye-plate, preferably connected to the bracket, and an adjustable frictionally-held tubular head, preferably connected to the lamp and engaging the eye-plate, and a bolt whose stem passes through the tubular head with the head of the bolt coming against the eye-plate, and a clamp-nut on the other and threaded end of the bolt-stem to clamp the eye-plate to the lamp. The details of the construction are hereinafter more particularly described.

In the drawings, Figure 1 is an elevation illustrating my improvement and showing part of a lamp and part of a vehicle or fixed support. Fig. 2 is a sectional plan of the same, and Fig. 3 is a sectional plan showing a simple connection of approved form.

The bracket *a* may be of any desired character. I have, however, shown a bracket composed of two plates 2 3, connected at one end by a mortised extension 4 and engaging tongue 5 and at the other end by a clamping-screw 6. This bracket is adapted to engage a tubular support *b* of a bicycle or other vehicle or other circular support.

c represents an eye-plate fixed to the bracket *a*. This eye-plate is shown with a square opening; but the shape of the said opening may be elliptical, triangular, or polygonal, as desired, without departing from my invention.

d represents part of a lamp, to which the

plate *e* is connected. The form of the lamp is entirely immaterial. The plate *e* is made with a circular opening to receive the tubular head *f*. (Shown in Fig. 3 in its simple and generic form.) The end of the tubular head *f*, projecting beyond the face of the plate *e*, conforms to the opening in the eye-plate *c*. For the present illustration this portion is shown as square and adapted to receive around the periphery thereof the eye-plate *c*. This tubular head passes through the plate *e* of the lamp and is secured to the same. Fig. 3 shows said tubular head *f* with a portion adjacent to the clamping-nut 9 as turned over against and riveted to the said plate *e*. In Fig. 2 the tubular head *f* receives over the same the eye-plate, as hereinbefore stated in connection with Fig. 3; but this tubular head is provided with a threaded portion extending through the plate *e* and upon which is a nut *f*². The end of the threaded portion is preferably upset, so that this nut cannot be removed.

With the devices shown in Figs. 2 and 3 the clamping-bolt comprises the head 7, a threaded stem 8, and a clamping-nut 9, and the shape of the head 7 corresponds with the shape of the end of the tubular head received in the opening of the eye-plate *c*, as the head 7 in connecting the parts must pass through the opening of the eye-plate, and when the parts are brought into this relation the head 7 of the shape shown is given an eighth of a turn, so as to cause the points or ends of the same to overlap the face of the eye-plate in the position shown in Fig. 1, and when the nut 9 is screwed down to place the lamp and the bracket are securely connected. The extent of turn given to the head 7 to cause the same to overlap the face of the eye-plate is controlled by the shape of the parts.

The special object of the tubular head *f* is to obtain the desired angular relation of the bracket and lamp, so that the lamp when the bracket is placed on the vehicle may be brought into the position desired by the user of the lamp. In the simple form of the tubular head shown in Fig. 3 the same is held frictionally to the plate *e* of the lamp, and it may be turned slightly by the application of a wrench, so as to alter the inclination and

relation of the bracket and lamp when the eye-plate is passed over the said head. In all cases the tubular head must be connected to the plate *e* with sufficient force to support the lamp without alteration of position in use.

I prefer the form of tubular head shown sectionally in Fig. 2, because therein any desired pressure may be brought to bear in clamping the tubular head by means of the nut f^2 to the plate *e* of the lamp, and in effecting this clamping action one wrench can be put on the square end of the tubular head and another wrench on the end f^2 and the parts be strained to any desired tension to maintain them in place and support the lamp and at the same time effect the inclination or the angle that the bracket and lamp bear to each other.

It is to be understood that in all cases the form of the head 7 and the outer end of the tubular head *f* or f' are to agree in shape and size and that the opening in the eye-plate *c* is to coincide with these parts, so that the eye-plate may be passed over the head 7 and upon and around the end of the tubular head *f* or f' .

It is essential that the head 7 be of the same shape as the opening in the eye-plate *c* and that this shape be other than round, as the device would be inoperative if the said opening and bolt-head were circular.

I claim as my invention—

1. The combination with a lamp and a bracket, of a plate upon the one and an eye-plate upon the other, of a tubular head frictionally held to the first plate and adjustably connected therewith and of a form to receive around the same the eye-plate and a bolt passing through the tubular head and clamping the said plates together, substantially as set forth.

2. The combination with a lamp and a

bracket of a plate *e* having a circular opening connected to the one and an eye-plate *c* connected to the other and having an opening therein, a tubular head having an end of a form agreeing with the opening in the eye-plate and passing through the circular opening in the plate *e* and frictionally secured thereto, and a bolt passing through the tubular head with the head of the bolt agreeing in outline with the opening in the eye-plate and adapted to be turned to engage the face of the eye-plate, the said bolt clamping the said plates together, substantially as set forth.

3. The combination with the lamp and the bracket, of a plate *e*, having a circular opening, connected to the lamp and an eye-plate *c* connected to the bracket and having an opening therein, a tubular head passing through the opening in the plate *e* and having a portion upon one side of the plate in form agreeing with the opening in the eye-plate and over and around which the eye-plate is adapted to be placed, said tubular head having a threaded portion upon the other side of the plate *e* and a nut upon said threaded portion to clamp and frictionally hold the tubular head to the plate *e*, and a bolt passing through the tubular head to clamp the said plates together, the nut of the bolt bearing against the nut of the tubular head and the head of the bolt being of a shape adapted to pass through the opening in the eye-plate and be turned so that its corners or edges engage the surface of the eye-plate when the parts are clamped together, substantially as and for the purposes set forth.

Signed by me this 18th day of November, 1899.

CHAS. E. WIRTH.

Witnesses:

J. H. HURLBUT,

C. W. NORTHROP.